

# GCSE Exam Questions

Frequency Polygon | Statistics



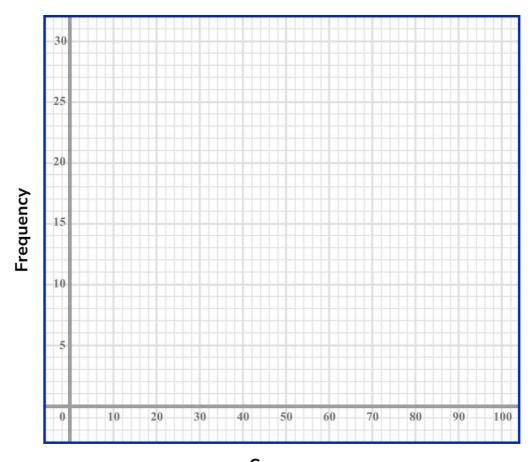
#### GCSE Exam Questions: Frequency Polygon

1) The test scores of 80 students are recorded.

The frequency table shows the information.

Scores, x	Frequency	
0 ≤ x < 20	7	
20 ≤ x < 40	13	
40 ≤ x < 60	27	
60 ≤ x < 80	19	
80 ≤ x < 100	14	

Draw a frequency polygon for the information in the table.



Score, x

(2 marks)



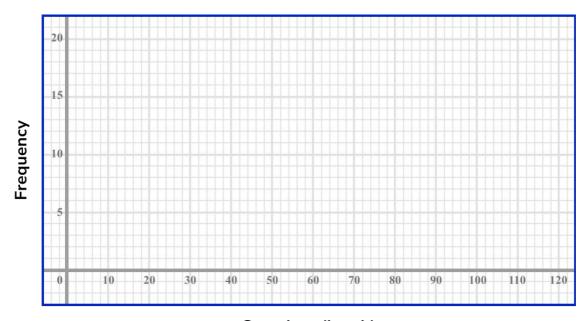
#### GCSE Exam Questions: Frequency Polygon

2) The speeds of 50 vehicles are recorded.

The frequency table shows the information.

Speed, v (kmph)	Frequency
0 < v ≤ 20	1
20 < v ≤ 40	9
40 < v ≤ 60	8
60 < v ≤ 80	17
80 < v ≤ 100	13
100 < v ≤ 120	2

Draw a frequency polygon for the information in the table.



Speeds, v (kmph)

(2 marks)



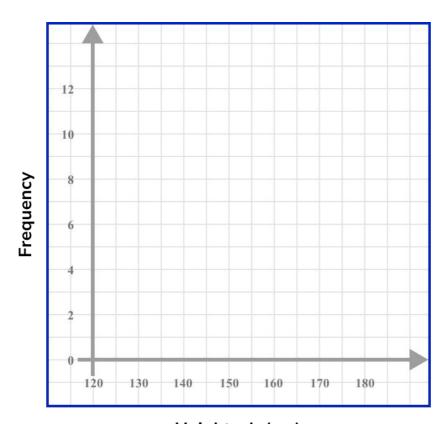
## GCSE Exam Questions: Frequency Polygon

3) The heights of 30 students are measured.

The frequency table shows the information.

Heights, h (cm)	Frequency
120 < h ≤ 130	1
130 < h ≤ 140	5
140 < h ≤ 150	10
150 < h ≤ 160	9
160 < h ≤ 170	3

Draw a frequency polygon for the information in the table.



Heights, h (cm)

(2 marks)



## GCSE Exam Questions: Frequency Polygon Answers

	Question		Answer	Marks
1)	The test scores of 80 students are recorded.		Midpoints - 10, 30, 50, 70, 90	(1)
	The frequency table shows the information.		-30	
	Scores, x	Frequency	25	
	0 ≤ x < 20	7	20	
	20 ≤ x < 40	13	, uncy	
	40 ≤ x < 60	27	Leadneu C	
	60 ≤ x < 80	19	10	
	80 ≤ x < 100	14	5	
2)	in the table.  The speeds of 50 vehicles are recorded.  The frequency table shows the information.		Midpoints - 10, 30, 50, 70, 90, 110	(1)
	Speed, v (kmph)	Frequency	15	
	0 < v ≤ 20	1	Frequency 01	
	20 < v ≤ 40	9	3H 5	
	40 < v ≤ 60	8	0 10 20 30 40 50 60 70 80 90 100 110 120	
	60 < v ≤ 80	17	Speeds, v (kmph)	(1)
	80 < v ≤ 100	13		
	100 < v ≤ 120	2		
	Draw a frequency polyg in the table.	gon for the information		



## GCSE Exam Questions: Frequency Polygon Answers

	Question		Answer	Marks
3)	The heights of 30 students are measured.		Midpoints - 125, 135, 145, 155, 165	(1)
	The frequency table shows the information.			
	Heights, h (cm)	Frequency	12	
	120 < h ≤ 130	1	10	
	130 < h ≤ 140	5	Frequency 8	
	140 < h ≤ 150	10	Frequencies	
	150 < h ≤ 160	9	4	
	160 < h ≤ 170	3	2	
	Draw a frequency polygon for the information in the table.		n 120 130 140 150 160 170 180	
			Heights, h (cm)	(1)

# Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning GCSE maths revision pages.

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